INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/018836

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl⁷ F04C18/02, 29/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $Int.C1^7$ F04C18/02, 29/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho

1922–1996

Jitsuyo Shinan Toroku Koho

1996–2005

Kokai Jitsuyo Shinan Koho

1971–2005

Toroku Jitsuyo Shinan Koho

1994–2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
A	JP 8-334094 A (Coopland Corp.), 17 December, 1996 (17.12.96), Full text; all drawings	1-6	
А	JP 58-98687 A (Mitsubishi Heavy Industries, Ltd.), 11 June, 1983 (11.06.83), Full text; all drawings	1-6	
Α	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 158792/1984 (Laid-open No. 73093/1986) (Tokico Ltd.), 17 May, 1986 (17.05.86), Full text; all drawings	1-6	

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* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E"	earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"L"	L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is			
"O" "P"	document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the		combined with one or more other such documents, such combination being obvious to a person skilled in the art			
	priority date elaimed	"&"	document member of the same patent family			
Date of the actual completion of the international search		Date of mailing of the international search report 17 May, 2005 (17.05.05)				
Date of the actual completion of the international search						
20 April, 2005 (20.04.05)			17 May, 2005 (17.05.05)			
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X See patent family annex.

INTERNATIONAL SEARCH REPORT Information on patent family members

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International application No.

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JP 8-334094 A	1996.12.17	US 005741120 A1 US 006047557 A1 US 006086335 A1 US 006499305 B2 US 006438974 Bi US 2003/0084672 A1 US 2003/0089119 A1 US 2003/0094004 A1 US 2004/0123612 A US 2001/0045097 A1 US 2001/0045097 A1 US 2001/0049942 A1 EP 000747597 A2 WO 1999/017066 A1 CN 001137614 A IN 000188063 A AU 009308798 A BR 009812560 A CN 001272171 T AU 000748946 B AU 000770363 B AU 001474302 A AU 001474402 A	1998.04.21 2000.04.11 2000.07.11 2002.12.31 2002.08.27 2003.05.08 2003.05.15 2003.05.22 2003.07.01 2001.11.29 2001.05.31 2001.12.13 1996.12.11 1999.04.08 1996.12.11 2002.08.17 1999.04.23 2000.08.01 2000.11.01 2002.06.13 2003.06.26 2004.02.19 2002.03.14 2002.03.14
JP 58-98687 A JP 61-73093 U	1983.06.11 1986.05.17	(Family: none) (Family: none)	